

Title (en)
ALL SOLID STATE SECONDARY-BATTERY ADDITIVE, ALL-SOLID-STATE SECONDARY BATTERY, AND METHOD FOR PRODUCING SAME

Title (de)
ADDITIV FÜR FESTKÖRPERSEKUNDÄRBATTERIE, FESTKÖRPERSEKUNDÄRBATTERIE UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)
ADDITIF POUR BATTERIE RECHARGEABLE TOUT SOLIDE, BATTERIE RECHARGEABLE TOUT SOLIDE ET SON PROCÉDÉ DE FABRICATION

Publication
EP 3343686 A1 20180704 (EN)

Application
EP 16837116 A 20160816

Priority
• JP 2015160469 A 20150817
• JP 2016073938 W 20160816

Abstract (en)
General Formula(I): Provided is an all solid state secondary-battery additive comprising a polyalkylene carbonate (I) represented by general formula (I), and by providing such additive, properties such as the charge-discharge capacity and interfacial resistance of an all-solid-state secondary battery are improved. (In general formula (I), R 1 and R 2 are each a C1-10 chain-like alkylene group or C3-10 cycloalkylene group, m is 0, 1, or 2 and n is an integer of 10 to 15000, and each R 1 , R 2 and m in the polyalkylene carbonate (I) chain is independently the same or different.)

IPC 8 full level
H01M 10/0562 (2010.01); **H01B 1/06** (2006.01); **H01M 4/13** (2010.01); **H01M 4/62** (2006.01); **H01M 10/058** (2010.01)

CPC (source: EP KR US)
H01B 1/06 (2013.01 - EP); **H01M 4/13** (2013.01 - EP US); **H01M 4/139** (2013.01 - EP KR US); **H01M 4/62** (2013.01 - EP KR US); **H01M 10/0525** (2013.01 - EP US); **H01M 10/0562** (2013.01 - EP KR US); **H01M 10/058** (2013.01 - KR US); **H01M 10/0585** (2013.01 - EP US); **H01M 2004/027** (2013.01 - EP US); **H01M 2004/028** (2013.01 - EP US); **H01M 2300/0068** (2013.01 - EP KR US); **H01M 2300/0071** (2013.01 - KR); **Y02E 60/10** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP)

Cited by
EP3950770A4

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3343686 A1 20180704; **EP 3343686 A4 20190313**; **EP 3343686 B1 20211124**; CN 107925126 A 20180417; CN 107925126 B 20210518; JP 6977932 B2 20211208; JP WO2017030127 A1 20180607; KR 102582226 B1 20230922; KR 20180036781 A 20180409; US 10756383 B2 20200825; US 2018241077 A1 20180823; WO 2017030127 A1 20170223

DOCDB simple family (application)
EP 16837116 A 20160816; CN 201680047751 A 20160816; JP 2016073938 W 20160816; JP 2017535539 A 20160816; KR 20187006650 A 20160816; US 201615753077 A 20160816